

POPULAR SCIENCE.

**OUR BUDGET OF HUMOR.**

The United States Government and foreign governments as well have quit, recently for the purpose of ascertaining the migratory habits of the eel released the fish with metal checks attached for the purpose of later identification.

The "freezing well" of Raoul Pictet is a fair-lined steel cylinder about five feet deep. In this is placed the survivor from lung, stomach or kidney disease, for five to fifteen minutes, and a liquefied mixture of sulphuric and carbonic acids, at 110 degrees below zero, is circulated by special pumps between the double walls of the cylinder. By eight applications of this treatment, which gives no sensation of cold, Pictet claims to have cured his own dyspepsia of fifteen years' standing.

**Man's Adaptability.**

Jimble—"There's something wonderful about man."

Jumble—"So well adapted, for instance, to carry an umbrella."—Boston Transcript.

**Had Proved It.**

"A great deal may be said on the subject," said the prolix person.

"That," said the weary auditor, "is the one point on which you have convinced me!"—Washington Star.

**Feminine Conversation.**

Bobbins—"Women talk about nothing but their dress."

Bobbins—"Oh, I don't know. It seems to me I've heard some of them talk about their hats."—Philadelphia Record.

**Who Could Have Placed Them There?**

The fireball of July 13, 1892, was observed at 116 places in England and Wales and from these observations its orbit has just been worked out. The meteor radiated from a point near Zeta Sagittarii 336 degrees plus 30 degrees.

At the beginning of its path it was eighty-six and one-half miles over a point eleven miles west of St. Omer in France; at the ending of its flight it was fifty-two and one-half miles over a point eleven miles west of Cape Gris Nez, France. Its path was forty-five miles long and it was traversed at the rate of twenty-two and one-half miles per second (duration of flight, two seconds). The apparent size of the meteor in motion approached that of the moon and after it had burst its apparent size was about twice that of the moon. Its brilliancy was also about that of the moon.

A Prussian meteorologist has invented a pen for automatic registering instruments that will operate without trouble in the intense cold of very great altitudes. In modern meteorological study balloons for "sounding" the upper air are sometimes sent to an elevation of forty or fifty thousand feet above sea-level, and they are furnished with various instruments that do their own registering. As ink would freeze at such an elevation it cannot be used, and the invention referred to is intended as a substitute.

The pen contains a solution of sappite, and makes its tracings on a disk coated with lampblack that has been treated with tansol. A chemical reaction takes place that gives the tracings a red color, and neither handling or wetting will obliterate them.

**Ducks' Nests.**

The accompanying sketch represents an easy way of arranging plain nests for ducks. Make them out of inch boards, twelve inches high and sixteen inches long. Set boards fifteen inches apart and nail on a three-inch strip in front close to the floor to hold together. Never use a wide strip across the front, as the duck is liable to injure herself

## Poultry Notes.

Strong, Healthy Chicks.

Success with poultry depends in large measure, on beginning, or, to be more exact, on the growth of the chicks up to the third month. It is, therefore, of the utmost importance that we exercise care in hatching chicks that have vigor and health, for it is such that grow rapidly and seldom have any kind of sickness. Eggs that are used for hatching should be from hens that are kept in separate pens and especially cared for. No eggs should be set from flocks that run promiscuously together. When the time for hatching arrives the choicer hens should be penned and only eggs from them used. By this method the fowls can be improved and each year will find us with better birds.

**Eggs For Hatching.**

It is a mistake to sell off all the old hens and depend entirely on the pullets for the eggs used for hatching.

Chicks hatched from eggs laid by hens one, two or even three years old, are stronger, and usually make better fowls than those from pullets.

Hens after the first year lay larger eggs, and the chicks from them are, as a rule, harder than from younger hens.

The old hens are more patient setters and, as a rule, are better mothers.

We think it better to mate the two or three-year-old hens with cockrels that have fully matured, and reserve the pullets, except those early hatched, for market eggs.

Much of the worry in raising chicks is the result of weak stock, and the more we guard against such defects the less will be our trouble.—Home and Farm.

**Gapes.**

There is no doubt that gapes are caused by a small worm gathered from the filth of the yard—usually in an embryo state and being warmed in the crop of the chick develops the small worm which gradually interferes with breathing and produces that gaping which eventually ends in death.

Incubator chicks have never been known to have gapes, neither have those that were kept in clean, grassy plots. Only those that have had runs on bare ground, where filth was allowed to accumulate, have ever had gapes, and all tests have shown exclusively that filth produced the disease.

If the chicks are under the care of a hen, see that the yards are kept clean and change the location of the coops every few days. Keep lime scattered over the ground where there is no grass and do not let the chicks eat cat food and filth and mud.

**How to Get Strong Nerves.**

First, repair the injury already done to your nerves. The way to do this is to do your best to get Mattie B. Curtis, Secretary of Legion of Little Women, Hotel Salem, Boston, Mass. She says in her letter:

"I suffered for over a year with general weakness and debility manifested in severe headache and backache. I took four bottles of Peruna, and for two months have been entirely free from these maladies."

## HOW A BEAUTIFUL WOMAN ESCAPED SPRING CATARRH BY USE OF PE-RU-NA.

**Nothing Robs One of Strength Like Spring Catarrh.**  
**Spring Fever is Spring Catarrh.**



MISS HELEN WHITMAN.

Miss Helen Whitman, 308½ Grand Avenue, Milwaukee, Wis., writes:

"There is nothing like Peruna for that tired feeling, which gives you no ambition for work or play. After a prolonged illness about a year ago, I felt unable to regain my health, but four bottles of Peruna made a wonderful change and restored me to perfect health. As long as you keep your blood in good condition you are all right, and Peruna seems to put the verus with pure healthful blood. I thoroughly endorse it."

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